

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 81-38

WATER RECLAMATION REQUIREMENTS FOR:

MARIN MUNICIPAL WATER DISTRICT, LAS  
GALLINAS VALLEY SANITARY DISTRICT  
CALIFORNIA DEPARTMENT OF TRANSPORTATION  
AND CITY OF SAN RAFAEL, MARIN COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called "the Board") finds that:

1. Marin Municipal Water District, California Department of Transportation and the City of San Rafael (hereinafter known collectively as the users) submitted a report of waste discharge dated August 25, 1980.
2. The users propose to reclaim up to 1.0 million gallons per day (mgd) of wastewater which has received secondary treatment at the Las Gallinas Valley Sanitary District (hereinafter called the producer). The reclaimed wastewater will, in part, be used to irrigate the following areas:

<u>Location</u>	<u>Annual Demand (acre-foot)</u>	<u>Peak Summer Demand (MGD)</u>	<u>Method of Application</u>
1. Smith Ranch Road Median Strips	1.0	0.005 <sup>1/</sup>	drip
2. Smith Ranch Road and Highway 101 Interchange	1.0	0.004 <sup>2/</sup>	Bubbler
3. Manual T. Freitas Parkway & Highway 101 Interchange	4.5	0.1 <sup>1/</sup>	spray
4. North San Pedro Road & Highway 101 Interchange	4.3	0.09 <sup>1/</sup>	spray
5. Miller Creek Road & Highway 101 Interchange	20	0.326 <sup>1/</sup>	spray

<sup>1/</sup> Irrigation to be done approximately once per week.

<sup>2/</sup> Irrigation to be done approximately twice per week.

The approximate locations of these areas to be irrigated are shown on the attached map, which is hereby made part of this Order.

3. The reclamation facilities will provide filtration and chlorination of the secondary effluent. The treated waste will be discharged into one of three holding basins. The irrigation water will not be drawn from the same basin as the one into which the treated waste is being discharged.
4. Section 13523 of the California Water Code provides that, after consultation with and reception of recommendation from the State Department of Health and if it is determined to be necessary to protect the public health, safety, or welfare, the Regional Board shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water.

The use of reclaimed water for the purposes specified in paragraph 2 could affect the public health, safety, or welfare. Therefore, requirements for these uses are necessary in accordance with Section 13523 of the Water Code.

5. The Board adopted a Water Quality Control Plan for the San Francisco Basin in April 1975.
6. The water quality objectives for reclaimed wastewater as set forth in the Basin Plan specify those limits prescribed in Title 17, Section 8025 through 8050, of the California Administrative Code.
7. The proposed use of reclaimed wastewater involves a minor alteration to land and as such is exempt from the provisions of the Environmental Quality Act of 1970 as a Class 4 exemption pursuant to Section 15104 of the California Administrative Code (State EIR Guidelines). The project will not have a significant effect on the environment.
8. This Board has notified the producer, users, and interested agencies and persons of its intent to prescribe water reclamation requirements for the uses listed in paragraph 2.
9. This Board at a public meeting heard and considered all comments pertaining to this proposed reuse.

IT IS HEREBY ORDERED that the producer and users shall comply with the following:

A. Discharge Specifications

1. The treatment, distribution, or reuse of the reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The use of reclaimed wastewater shall not cause degradation of ground water suitable for domestic use or cause any change in a quality parameter which would make the ground water less suitable for irrigation use.
3. The reclaimed wastewater shall be at all times an adequately disinfected, oxidized water and shall meet the following quality limits at all times:

5-day BOD	40.0 mg/l, maximum
Dissolved Oxygen	2.0 mg/l, minimum
Dissolved Sulfide	0.1 mg/l, maximum

4. The reclaimed wastewater shall meet the following quality limit at some point in the treatment process:

Coliform Organisms: Median MPN shall not exceed twenty-three (23) coliform organisms per 100 milliliters of sample. The median value will be determined from the bacteriological results of the last seven (7) analyses with samples collected and analyzed daily.

B. Prohibitions

1. No reclaimed wastewater used for irrigation shall be allowed to escape from the designated areas via surface flow or airborne spray.
2. No waste shall be applied to the disposal area when the soil is saturated or during periods of rain.
3. No reclaimed water shall be applied within 25 feet of bus pads, walkways, and other areas of similar public access. Exceptions may be authorized by the Executive Officer subject to specified use conditions if requested by the users.
4. The use of reclaimed wastewater on the designated landscape area shall cease immediately when any of the above specifications or prohibitions are not complied with.

C. Provisions

1. All equipment, including pumps, piping and valves, tanks, etc., which may at any time contain waste shall be adequately and clearly identified with warning signs; and, in addition, the users shall make all necessary provisions to inform the public that the liquid contained therein is sewage and is unfit for human consumption.
2. The users shall maintain good working order and operate as efficiently as possible any facility or control system installed by users to achieve compliance with the waste discharge requirements.
3. On-site inspections of treatment facilities by a sanitary engineer registered in the State of California shall be performed at intervals not to exceed 12 months to assess the overall condition and performance of the wastewater treatment facilities. Reports shall be submitted by the engineer to this Board's Executive Officer, and the users shall indicate in writing what corrective action will be taken if any problems are noted.
4. This Order, includes items numbered 1, 2, 4, 7, 8, 9, and 10 of the attached "Requirements of Design for Reclamation Facilities" dated October 1, 1975. Prior to discharge of waste, a report documenting compliance with these requirements shall be submitted by a sanitary engineer registered in the State of California.

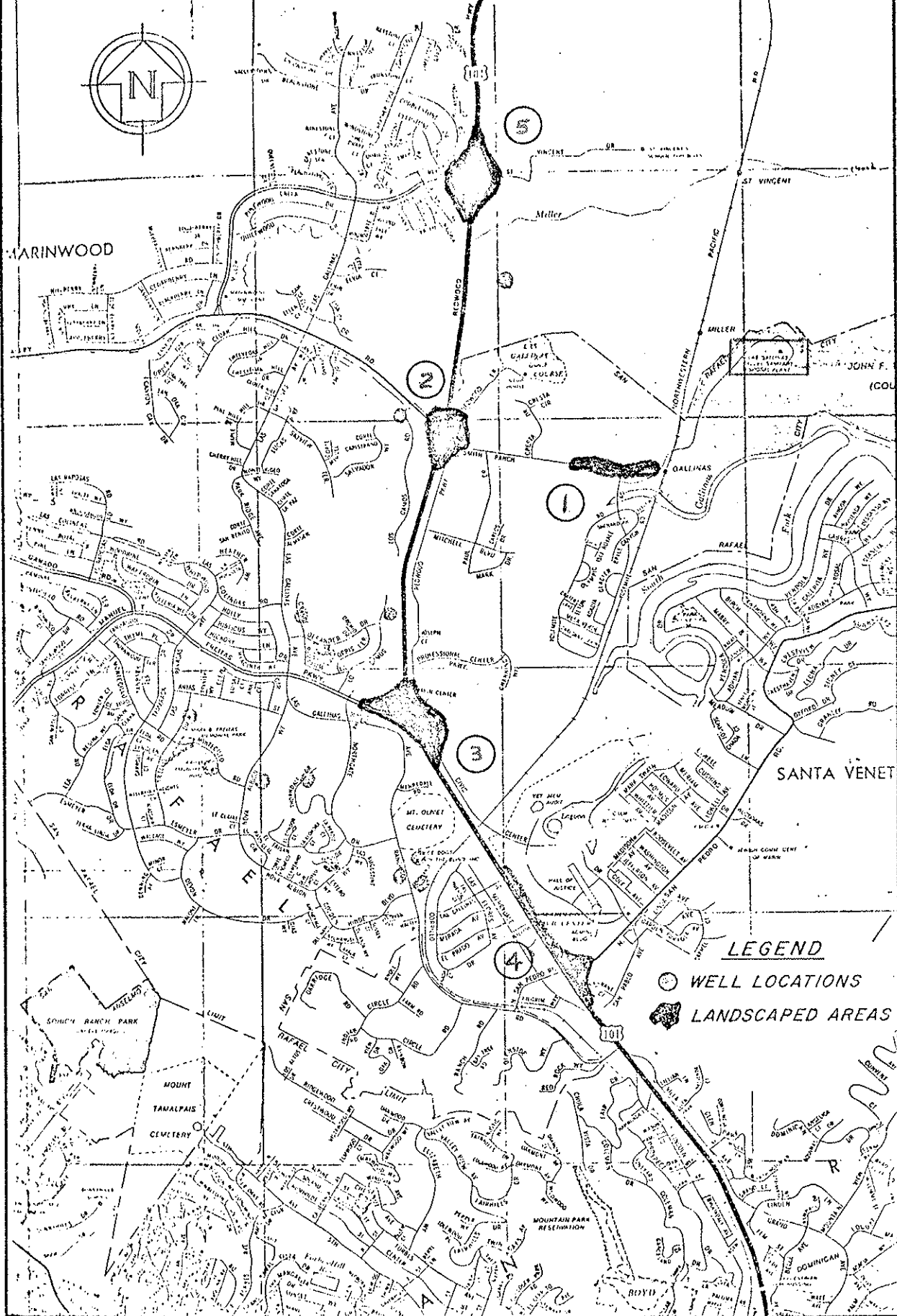
5. This Order includes all items of the attached "Standard Provisions for the Use of Reclaimed Wastewater" dated March 15, 1973.
6. The users and producer shall comply with a Self-Monitoring Program as ordered by the Executive Officer.
7. The producer and users shall permit the Regional Board or its **authorized** representative:
  - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
  - b. Access to copy any records required to be kept under terms and conditions of this Order.
  - c. Inspection of any monitoring equipment or method required by this Order.
  - d. Sampling of any discharge and reclaimed water.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 17, 1981.

FRED H. DIERKER  
Executive Officer

Attachments:

Map of Irrigation Areas  
Requirements of Design for Reclamation  
Facilities, 10/1/75  
Standard Provisions for the Use of  
Reclaimed Wastewater, 3/15/73



Attachment

MARIN MUNICIPAL WATER DISTRICT  
LAS GALLINAS VALLEY RECLAMATION PROJECT  
KNOWN WELLS NEAR THE PROPOSED  
RECLAIMED WASTEWATER USE AREA